

2011-04-11 Monday Morning Notes

Monday, April 11, 2011
7:28 AM

Stacking and Transfers

- Stacked 25.1mA/hr with a production of 20.9 pbars/Mp with 8.04 Tp on target.
- Unstacked 1513E10 (504/day) in 185 transfers(62/day) over 60 sets (20/day) with an average overall efficiency of 96.4%

Operational Happenings

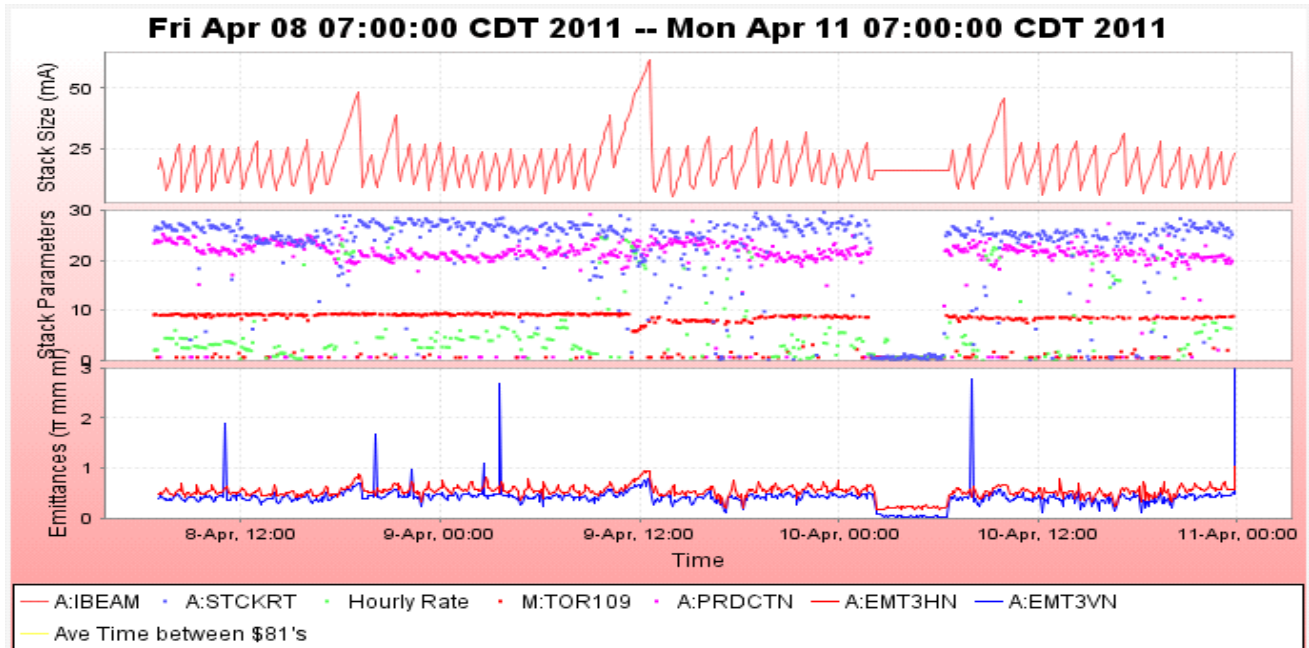
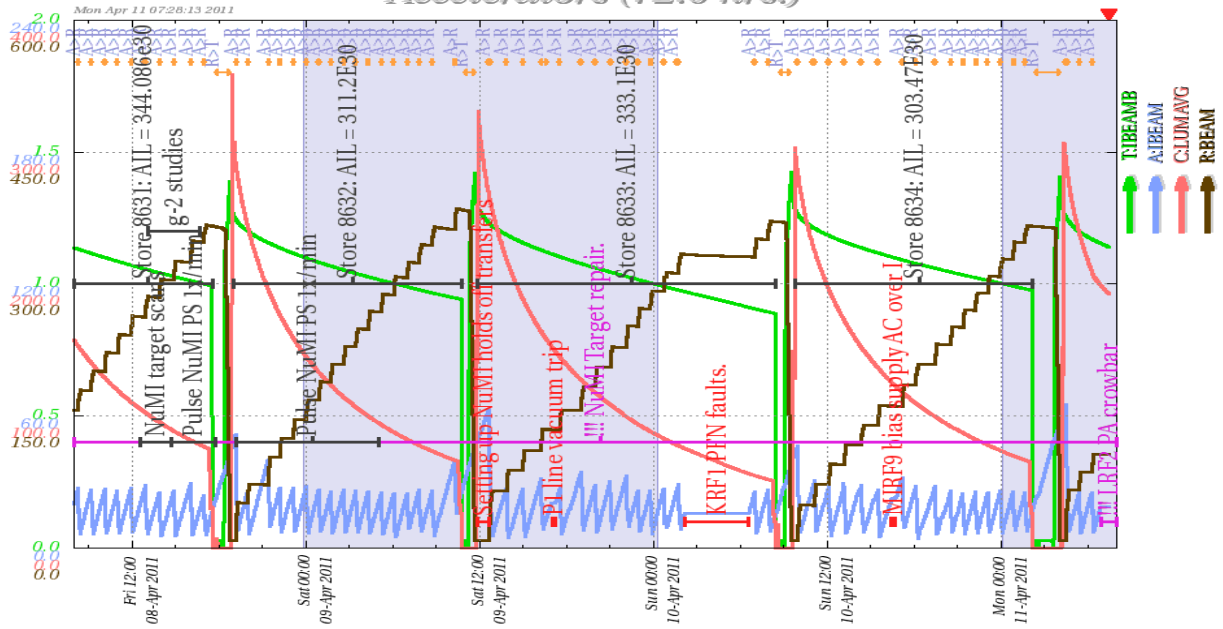
- Saturday went from \$29s to \$23s as NuMI turned back on after a long period of downtime. A look at the transition to \$23s was done here <http://www-bd.fnal.gov/cgi-mach/machlog.pl?nb=pbar11&action=view&page=68&anchor=223655&hilite=22:36:55->.
 - Down about 1.5mA/hr on \$23s at 2.2 seconds compared to \$29s at 2.4 seconds.
- Dump water leak started up again (<http://www-bd.fnal.gov/cgi-mach/machlog.pl?nb=pbar11&action=view&page=68&anchor=083605&hilite=08:36:05->)
 - Made up 7 times in 24 hours on Saturday!

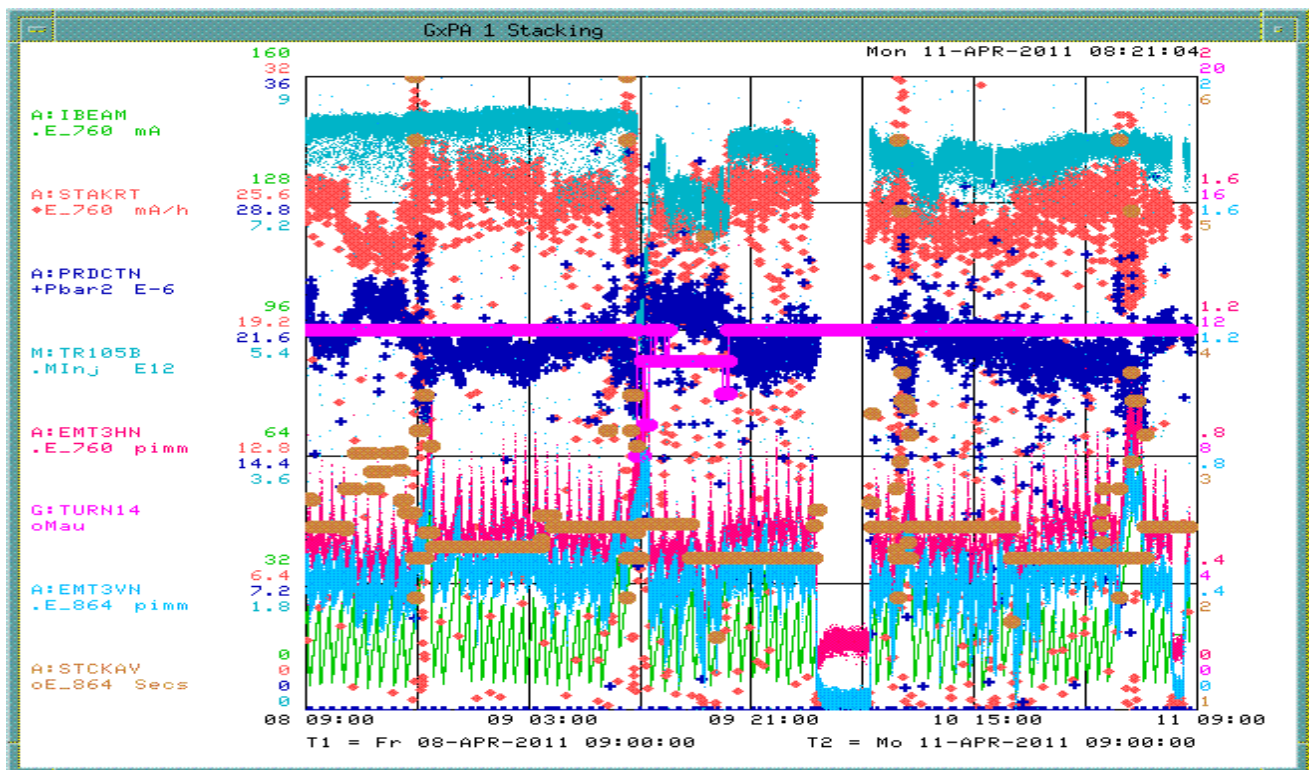
Numbers

- Stacking
 - Pbars stacked: 1543.09 E10
 - Time stacking: 66.51 Hr
 - Average stacking rate: 23.20 E10/Hr
- Uptime
 - Number of pulses while in stacking mode: 99605
 - Number of pulses with beam: 92947
 - Fraction of up pulses was: 93.32%
- The uptime's effect on the stacking numbers
 - Corrected time stacking: 62.07 Hr
 - Possible average stacking rate: 24.86 E10/Hr
 - Could have stacked: 1653.62 E10/Hr
- Recycler Transfers
 - Pbars sent to the Recycler: 1516.14 E10
 - Number of transfers : 186
 - Number of transfer sets: 61
 - Average Number of transfer per set: 3.05
 - Time taken to shoot including reverse proton tuneup: 00.65 Hr
 - Transfer efficiency: 95.82%
- Other Info
 - Average POT : 8.01 E12
 - Average production: 20.73 pbars/E6 protons

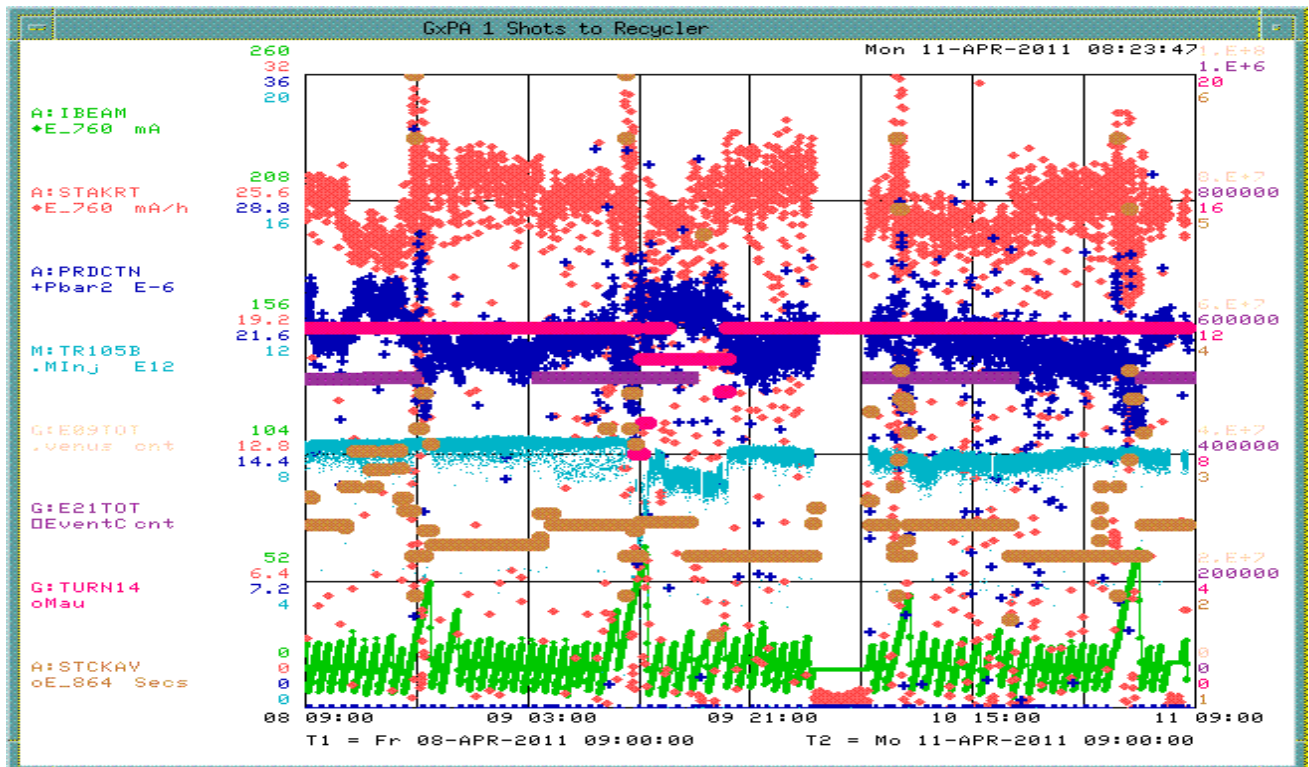
Plots

Accelerators (72.0 hrs.)

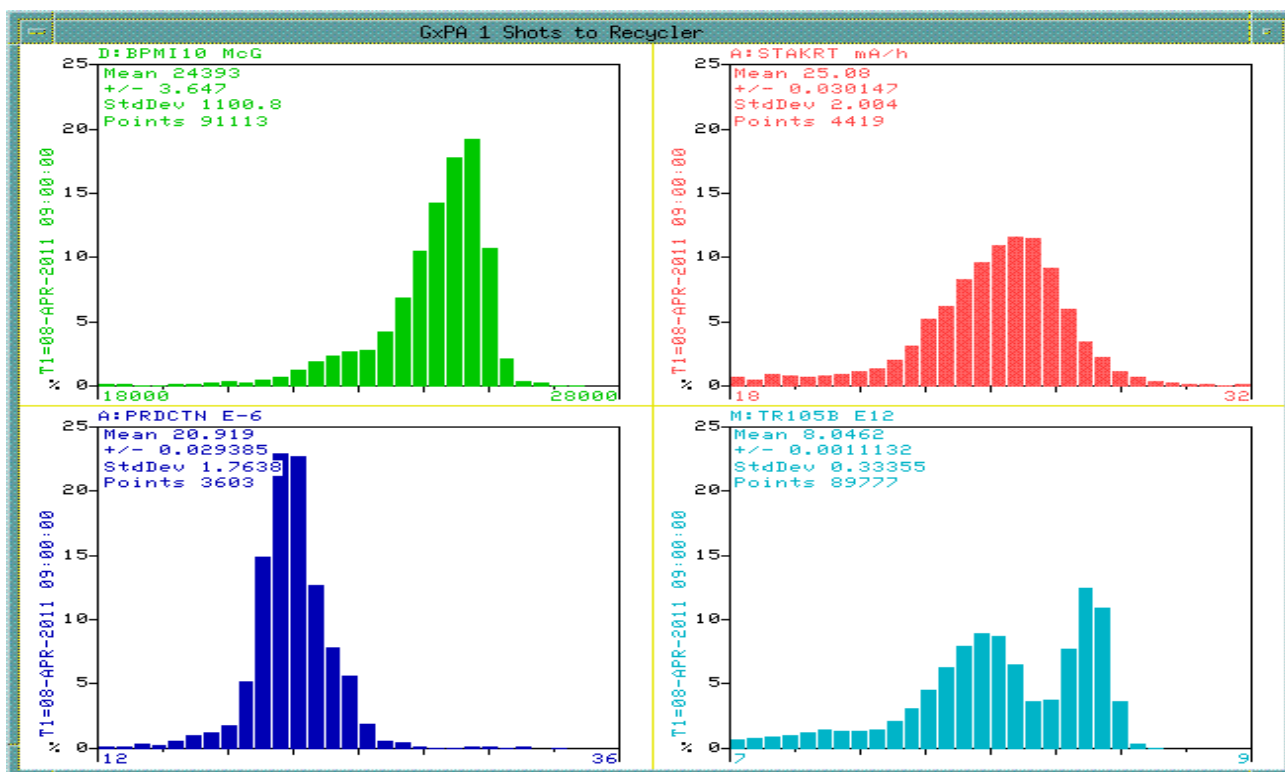




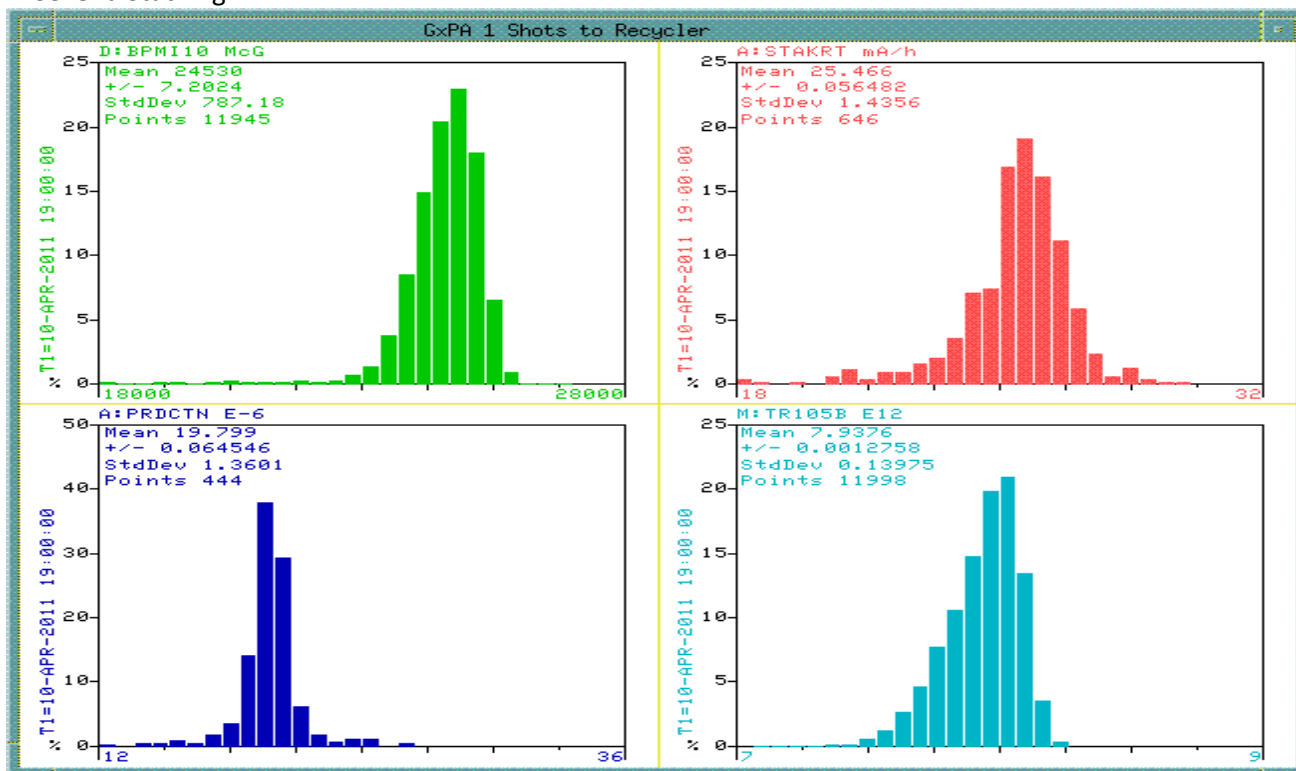
Weekend



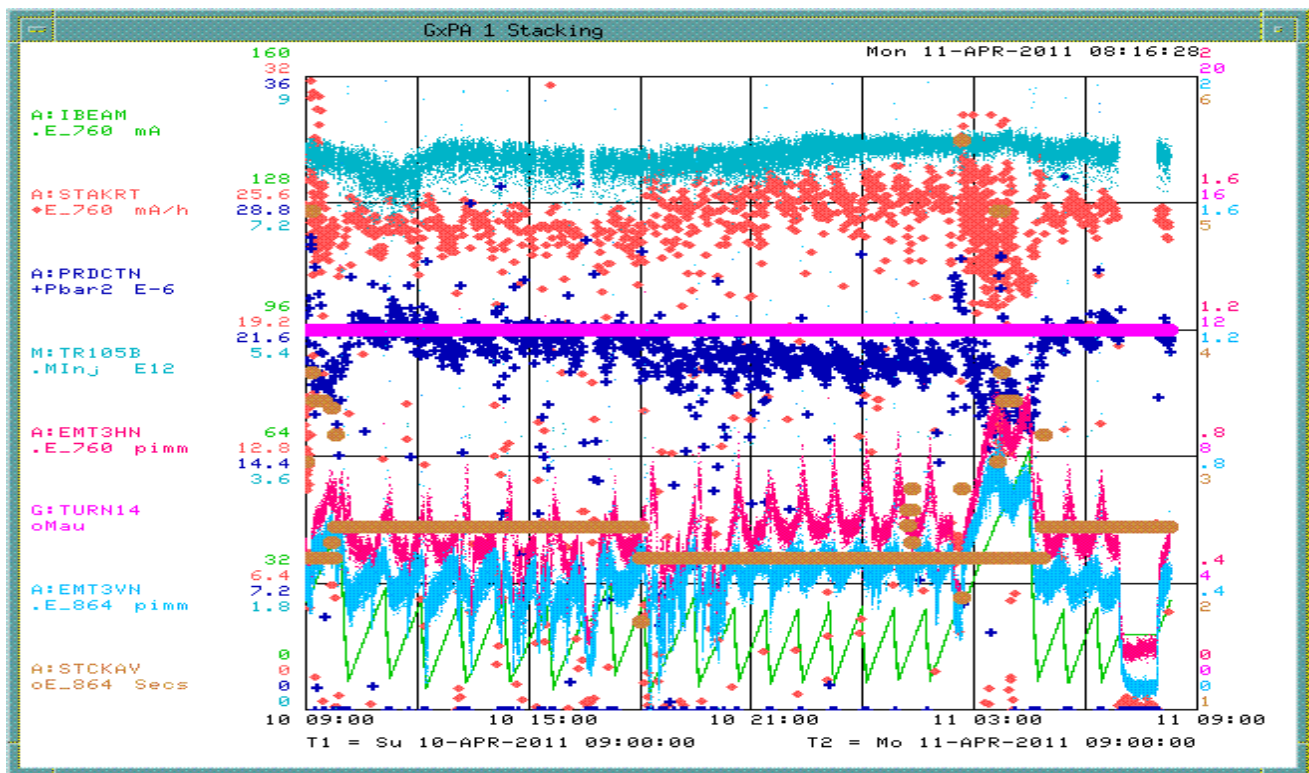
Weekend



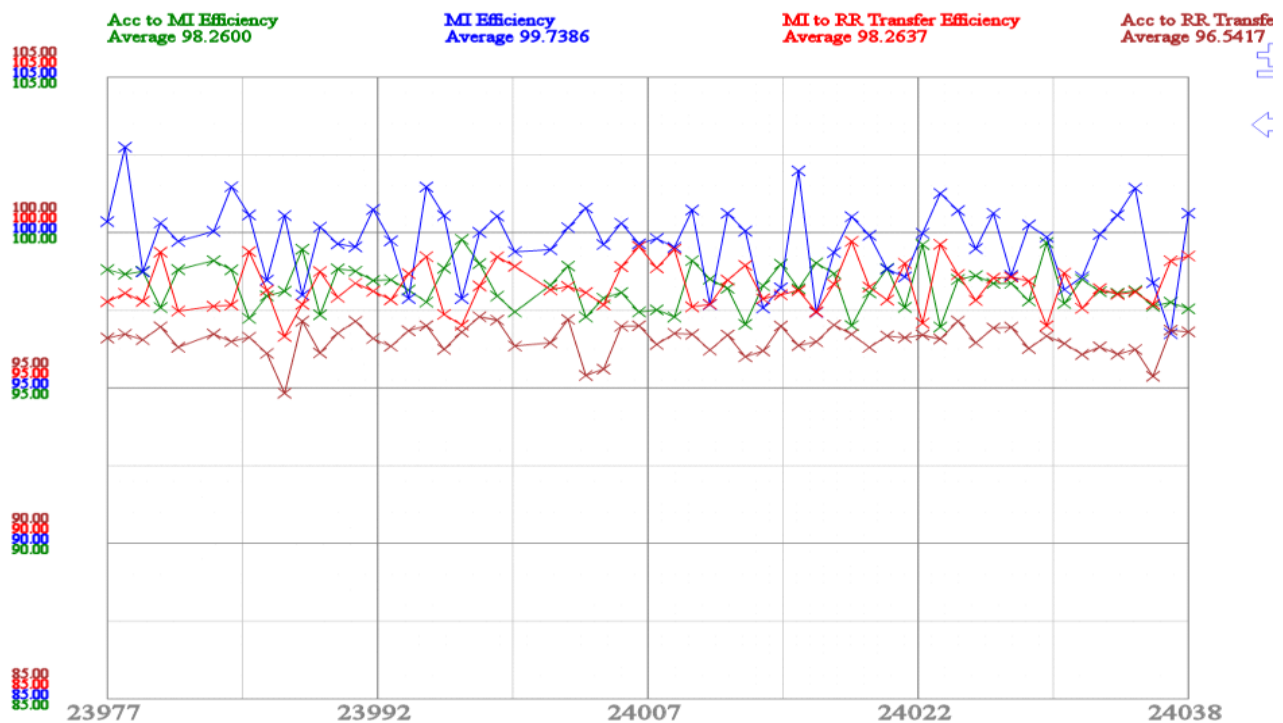
Weekend Stacking



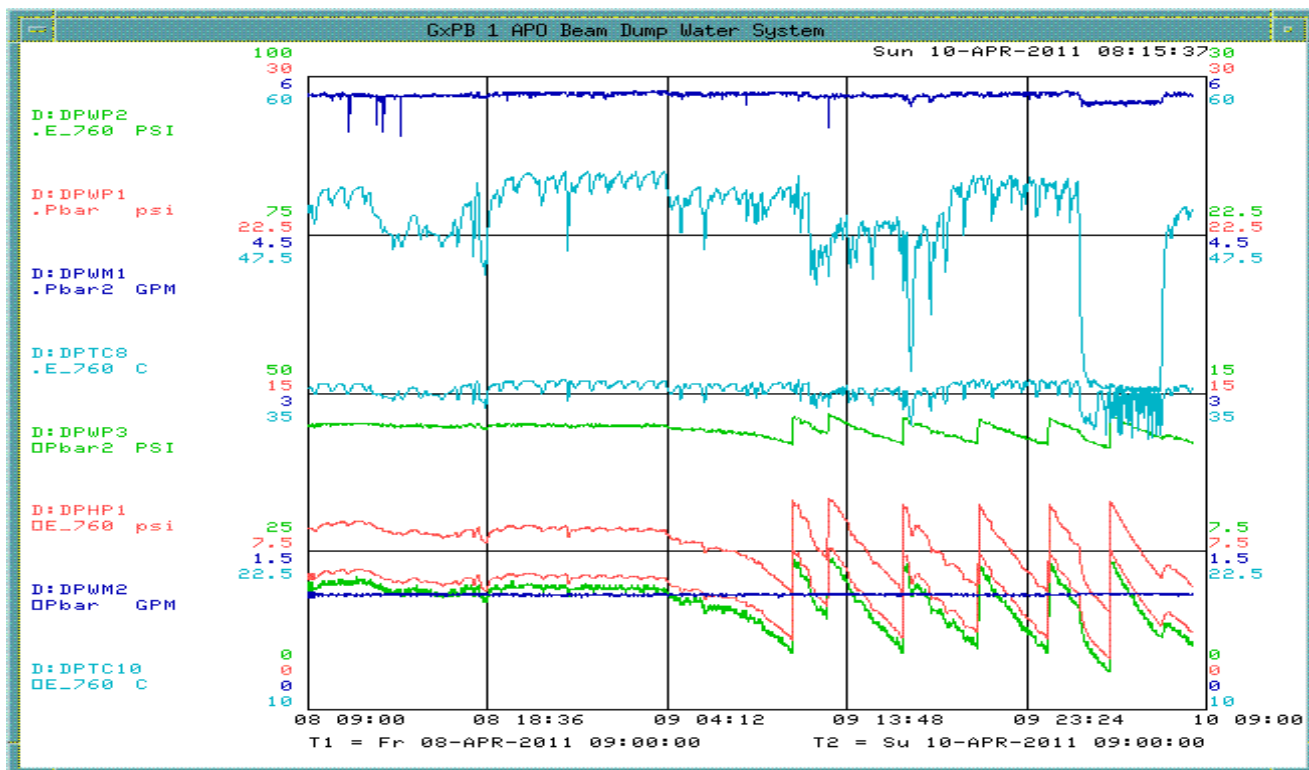
\$23's, no SY120. Down about 1.5mA/hr



24 hours



Column 1 Number or_0_Phr Transfer or Shut \$	Column 4 Number_3_Transfer Time	Column 21 Number or_20_A:IB EAMB ramp ed na \$91 (A:BE)	Column 22 Number or_21_A:IB EAMB ramp ed na \$94 (A:BE)	Unstack ed (mA)	Column 23 Number or_22_R:BE AMS (R:BE AME0[0]) are	Column 24 Number or_23_R:BE AM (R:BE AME0[1]) smr	Starhead	Acc to RR Eff	Acc to MI Eff	Acc to M12 Eff	Acc to M1 Acc to M12 Efficiency	Transfer eff	Sat r	Column 5 Number or_4_Acc Horiz ntal Emitt ance	Column 6 Number or_5_Acc Vertic al Emitt ance	Column 8 Number or_7_Acc Longit udinal Emitt ance	
Totals =>				1513.16			1458.10	96.36%	98.23%	97.93%	96.19%	185	60	5.485	4.08	1.98	
Daily Average =>				504.39			486.03					62	20				
24038	Monday, April 11, 2011	6:17	25.76	6.99	21.41	85.97	106.53	20.74	96.88%	97.48%	97.34%	94.89%	3	1	5.442	3.789	2.001
24037	Monday, April 11, 2011	5:24	25.33	6.79	21.22	65.81	86.19	20.57	96.90%	97.91%	95.89%	93.11%	3	1	5.605	4.125	2.008
24036	Monday, April 11, 2011	4:28	65.46	7.38	62.70	8.13	66.38	59.53	94.94%	97.55%	96.21%	93.85%	5	1	6.775	4.393	1.912
24035	Monday, April 11, 2011	1:40	25.48	7.22	20.83	347.03	366.68	20.05	96.23%	97.76%	99.29%	97.06%	3	1	5.949	4.405	2.007
24034	Monday, April 11, 2011	0:50	25.90	7.38	21.12	328.08	347.97	20.28	96.05%	98.37%	98.39%	96.78%	3	1	6.442	4.5	1.987
24033	Sunday, April 10, 2011	23:58	26.08	6.88	21.73	308.47	328.99	20.92	96.24%	98.22%	98.31%	96.56%	3	1	5.962	4.253	1.998
24032	Sunday, April 10, 2011	23:05	25.17	6.78	21.02	289.43	309.25	20.19	96.05%	98.29%	97.26%	95.60%	3	1	5.963	4.331	2.025
24031	Sunday, April 10, 2011	22:15	25.57	6.70	21.29	270.07	290.21	20.52	96.40%	97.66%	96.33%	94.07%	3	1	6.03	4.282	2.008
24030	Sunday, April 10, 2011	21:23	25.27	6.40	21.16	250.84	270.91	20.44	96.58%	99.29%	99.04%	98.34%	3	1	5.648	4.136	1.995
24029	Sunday, April 10, 2011	20:32	25.92	7.24	21.16	231.37	251.42	20.35	96.14%	97.82%	98.36%	96.21%	3	1	5.631	4.17	2.017
24028	Sunday, April 10, 2011	19:27	28.28	5.92	24.13	208.83	231.87	23.41	97.00%	98.32%	98.80%	95.18%	3	1	5.385	3.734	1.962
24027	Sunday, April 10, 2011	18:09	28.21	4.16	25.18	185.41	209.40	24.35	96.73%	98.34%	98.97%	97.32%	3	1	4.439	2.777	1.912
24026	Sunday, April 10, 2011	17:11	31.83	8.69	25.77	161.29	185.79	24.87	96.52%	98.48%	98.05%	96.56%	3	1	5.541	4.099	2.008
24025	Sunday, April 10, 2011	15:31	26.37	5.06	23.23	139.51	161.74	22.55	97.04%	98.62%	98.65%	97.29%	3	1	4.875	3.28	1.96
24024	Sunday, April 10, 2011	14:22	28.60	7.06	24.12	116.94	139.83	23.26	96.44%	97.27%	98.31%	95.62%	3	1	5.527	3.836	1.98
24023	Sunday, April 10, 2011	13:12	27.28	6.78	23.13	95.19	117.23	22.36	96.69%	99.43%	99.31%	98.75%	3	1	5.279	4.149	2.012
24022	Sunday, April 10, 2011	12:07	27.98	5.54	24.16	72.46	95.49	23.31	96.49%	97.59%	96.62%	94.29%	3	1	4.625	3.625	1.975
24021	Sunday, April 10, 2011	11:08	30.65	7.85	25.40	48.50	72.72	24.52	96.53%	98.46%	97.91%	96.40%	3	1	5.592	4.139	1.991
24020	Sunday, April 10, 2011	9:57	46.43	7.11	43.02	8.61	49.22	41.31	96.01%	98.40%	98.35%	96.77%	4	1	5.715	4.223	1.951
24019	Sunday, April 10, 2011	7:56	26.77	7.49	21.97	350.82	371.62	21.25	96.71%	97.24%	97.54%	94.85%	3	1	5.348	3.945	2.003
24018	Sunday, April 10, 2011	7:00	25.78	6.61	21.66	330.90	351.58	21.01	97.03%	98.95%	98.25%	97.22%	3	1	5.013	3.617	1.984
24017	Sunday, April 10, 2011	1:44	28.90	8.31	23.87	312.23	334.63	23.02	96.45%	98.75%	98.48%	95.27%	3	1	5.703	4.287	2.007
24016	Sunday, April 10, 2011	0:43	27.11	9.28	23.10	291.68	313.35	22.24	96.29%	98.24%	99.53%	97.78%	3	1	5.722	4.262	2.013
24015	Saturday, April 09, 2011	23:48	25.97	6.40	21.72	271.84	292.50	21.05	96.88%	98.87%	97.27%	96.17%	3	1	5.372	3.937	1.978
24014	Saturday, April 09, 2011	22:56	26.31	7.21	21.64	252.04	272.56	20.82	96.22%	98.20%	96.79%	95.05%	3	1	5.876	4.095	2.024
24013	Saturday, April 09, 2011	22:09	33.03	9.36	26.26	228.05	252.76	25.19	95.92%	97.37%	97.29%	94.73%	3	1	6.105	4.759	1.985
24012	Saturday, April 09, 2011	21:01	30.42	8.35	24.52	205.62	228.85	23.68	96.56%	98.03%	98.54%	96.59%	3	1	5.88	4.356	1.989
24011	Saturday, April 09, 2011	20:00	28.78	7.28	24.19	183.34	206.22	23.23	96.04%	98.55%	98.35%	94.95%	3	1	5.416	4.122	1.981
24010	Saturday, April 09, 2011	19:02	34.40	8.06	28.91	156.32	183.85	27.97	96.76%	99.32%	99.05%	98.28%	3	1	5.321	3.898	1.954
24009	Saturday, April 09, 2011	17:33	27.33	6.22	23.40	134.60	156.84	22.61	96.62%	96.95%	98.87%	93.91%	3	1	4.965	3.743	1.933
24008	Saturday, April 09, 2011	16:15	31.39	7.88	26.00	110.39	135.02	25.03	96.27%	97.49%	96.95%	94.52%	3	1	5.603	4.34	1.976
24007	Saturday, April 09, 2011	14:59	27.01	5.19	23.79	87.98	110.70	23.03	96.79%	97.47%	96.93%	94.47%	3	1	4.777	3.434	1.94
24006	Saturday, April 09, 2011	13:51	27.22	4.63	24.47	64.71	88.19	23.73	96.97%	98.42%	98.00%	96.45%	3	1	4.313	3.288	1.922
24005	Saturday, April 09, 2011	12:39	63.13	5.48	61.47	8.27	65.14	58.27	94.18%	97.54%	97.21%	94.82%	5	1	6.299	4.573	1.921
24004	Saturday, April 09, 2011	10:18	40.24	15.73	25.86	362.04	386.26	24.67	95.39%	97.26%	97.90%	95.21%	2	1	6.345	5.383	1.893
24003	Saturday, April 09, 2011	8:45	26.16	5.67	22.83	343.72	365.25	22.15	97.03%	98.90%	98.63%	97.54%	3	1	5.052	3.861	1.948
24002	Saturday, April 09, 2011	7:51	26.94	6.96	22.75	324.01	345.46	21.96	96.54%	98.67%	97.31%	96.01%	3	1	5.492	4.121	1.978
24000	Saturday, April 09, 2011	7:00	25.05	8.63	19.17	307.20	325.25	18.52	96.64%	98.11%	98.68%	96.82%	3	1	5.345	4.195	2.06
23999	Saturday, April 09, 2011	6:05	24.97	4.91	22.12	287.58	308.57	21.49	97.14%	98.23%	98.07%	96.33%	3	1	4.92	3.714	1.94
23998	Saturday, April 09, 2011	5:12	25.02	6.08	21.58	268.32	288.86	20.96	97.14%	98.87%	98.86%	97.75%	3	1	5.513	4.104	1.975
23997	Saturday, April 09, 2011	4:18	25.85	6.56	21.95	248.56	269.39	21.27	96.90%	99.55%	97.67%	97.23%	3	1	5.502	4.073	1.992
23996	Saturday, April 09, 2011	3:28	25.93	7.03	21.67	228.87	249.41	20.89	96.44%	99.04%	99.27%	98.32%	3	1	5.862	4.499	2.007
23995	Saturday, April 09, 2011	2:37	26.32	6.68	22.32	208.45	229.66	21.67	97.09%	97.94%	98.60%	96.57%	3	1	6.097	4.344	1.987
23994	Saturday, April 09, 2011	1:44	25.74	6.78	21.66	188.66	209.28	20.99	96.98%	98.23%	97.14%	95.42%	3	1	5.765	4.296	1.987
23993	Saturday, April 09, 2011	0:54	26.64	7.29	22.19	168.18	189.30	21.41	96.50%	98.48%	98.39%	96.88%	3	1	5.463	4.497	1.987
23992	Saturday, April 09, 2011	0:03	28.45	6.86	24.20	145.77	168.77	23.33	96.42%	98.13%	98.27%	96.43%	3	1	5.455	4.101	1.966
23991	Friday, April 08, 2011	23:08	27.71	7.48	23.00	124.20	146.25	22.31	97.00%	98.41%	98.80%	97.23%	3	1	5.565	4.38	2
23990	Friday, April 08, 2011	22:12	27.29	7.14	22.90	102.90	124.67	22.15	96.75%	99.16%	98.30%	97.47%	3	1	5.39	4.211	1.962
23989	Friday, April 08, 2011	21:25	40.34	9.54	33.40	71.82	103.38	32.10	96.10%	97.52%	97.86%	95.43%	3	1	6.001	4.487	1.919
23988	Friday, April 08, 2011	19:59	25.93	6.32	22.30	51.27	72.65	21.64	97.02%	99.15%	97.75%	96.92%	3	1	5.381	4.086	1.973
23987	Friday, April 08, 2011	19:09	51.72	8.20	47.02	8.27	51.78	44.38	94.31%	97.92%	98.09%	96.06%	4	1	7.894	5.405	1.924
23986	Friday, April 08, 2011	16:59	24.40	5.77	21.12	347.58	367.35	20.35	96.31%	98.51%	97.51%	96.06%	3	1	4.889	3.94	1.994
23985	Friday, April 08, 2011	16:03	29.46	6.00	25.78	324.93	349.31	24.91	96.63%	97.58%	97.71%	95.34%	3	1	5.007	3.622	1.943
23984	Friday, April 08, 2011	14:54	26.35	5.59	23.06	304.48	326.35	22.28	96.60%	98.85%	100.24%	99.09%	3	1	4.675	3.46	1.965
23983	Friday, April 08, 2011	13:53	25.31	5													



Dump water leak